

Title (en)

Method and apparatus for capturing and displaying a three-dimensional scene

Title (de)

Verfahren und Vorrichtung zur Aufnahme und Darstellung einer dreidimensionalen Szene

Title (fr)

Méthode et dispositif pour capturer et pour afficher une image d'une scène en trois dimensions

Publication

EP 1492054 A1 20041229 (EN)

Application

EP 03013444 A 20030623

Priority

EP 03013444 A 20030623

Abstract (en)

The method involves taking a two-dimensional image (2) of scenery and storing the image data. Three-dimensional coordinates of multiple points are taken on the surface of the scenery and the coordinate data are stored, where the coordinates are taken with a laser scanner. Luminance data and/or color data is allocated from the image data to the coordinate data or to the data derived from the coordinate data. An independent claim is also included for an apparatus for grasping a three dimensional scenery.

IPC 1-7

G06T 7/00

IPC 8 full level

G06T 7/00 (2006.01); **G06T 15/04** (2011.01); **G06T 15/20** (2006.01)

CPC (source: EP)

G06T 7/564 (2016.12); **G06T 15/04** (2013.01)

Citation (search report)

- [X] 3RDTECH: "DeltaSphere 3000 3D Scene Digitizer", DELTASPHERE 3000 DATA SHEET, 2002, pages 1 - 2, XP002262497, Retrieved from the Internet <URL:http://www.3rdtech.com/images/dsds02v5forweb2.PDF> [retrieved on 20031121]
- [XA] LAURENDEAU D ET AL: "The mapping of texture on VR polygonal models", 3-D DIGITAL IMAGING AND MODELING, 1999. PROCEEDINGS. SECOND INTERNATIONAL CONFERENCE ON OTTAWA, ONT., CANADA 4-8 OCT. 1999, LOS ALAMITOS, CA, USA,IEEE COMPUT. SOC, US, 4 October 1999 (1999-10-04), pages 332 - 339, XP010358777, ISBN: 0-7695-0062-5
- [XA] JIANG YU ZHENG ET AL: "Digital archiving of an archaeological excavation site for multimedia display", PATTERN RECOGNITION, 1998. PROCEEDINGS. FOURTEENTH INTERNATIONAL CONFERENCE ON BRISBANE, QLD., AUSTRALIA 16-20 AUG. 1998, LOS ALAMITOS, CA, USA,IEEE COMPUT. SOC, US, 16 August 1998 (1998-08-16), pages 1492 - 1496, XP010297794, ISBN: 0-8186-8512-3
- [A] GRANDJEAN P ET AL: "Multisensory scene interpretation: model-based object recognition", PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON ROBOTICS AND AUTOMATION SACRAMENTO, APR. 9 - 11, 1991, LOS ALAMITOS, IEEE COMP. SOC. PRESS, US, vol. 2 CONF. 7, 9 April 1991 (1991-04-09), pages 1588 - 1595, XP010023777, ISBN: 0-8186-2163-X
- [A] SHIRAI Y: "3D computer vision and applications", PATTERN RECOGNITION, 1992. VOL.1. CONFERENCE A: COMPUTER VISION AND APPLICATIONS, PROCEEDINGS., 11TH IAPR INTERNATIONAL CONFERENCE ON THE HAGUE, NETHERLANDS 30 AUG.-3 SEPT. 1992, LOS ALAMITOS, CA, USA,IEEE COMPUT. SOC, US, 30 August 1992 (1992-08-30), pages 236 - 245, XP010029813, ISBN: 0-8186-2910-X
- [A] NICCHIOTTI G: "A system for 3D reconstruction and VRML conversion for virtual museums applications", DIGITAL SIGNAL PROCESSING PROCEEDINGS, 1997. DSP 97., 1997 13TH INTERNATIONAL CONFERENCE ON SANTORINI, GREECE 2-4 JULY 1997, NEW YORK, NY, USA,IEEE, US, 2 July 1997 (1997-07-02), pages 421 - 424, XP010250998, ISBN: 0-7803-4137-6
- [DA] RIEGL LASER MEASUREMENT SYSTEMS GMBH, LMS-Z210I DATA SHEET, 31 March 2003 (2003-03-31), pages 1 - 3, XP002262498, Retrieved from the Internet <URL:http://www.riegl.com/834628/50940544.pdf> [retrieved on 20031121]

Cited by

US8155452B2; US8179393B2; US8290305B2; WO2010093675A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1492054 A1 20041229; **EP 1492054 B1 20190731**; WO 2004114214 A1 20041229

DOCDB simple family (application)

EP 03013444 A 20030623; EP 2004006740 W 20040622